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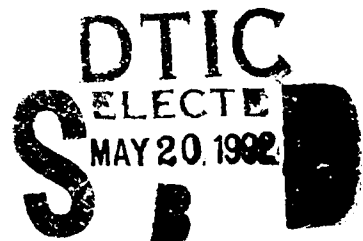
WRDC-TR-90-8007
Volume V
Part 38



INTEGRATED INFORMATION SUPPORT SYSTEM (IISS)
Volume V - Common Data Model Subsystem
Part 38 - DDL to NDDL Translator Build Instructions

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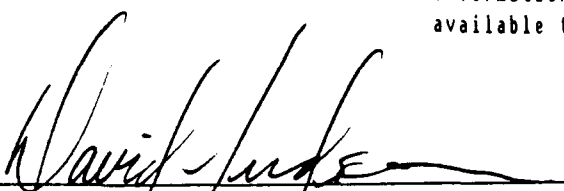
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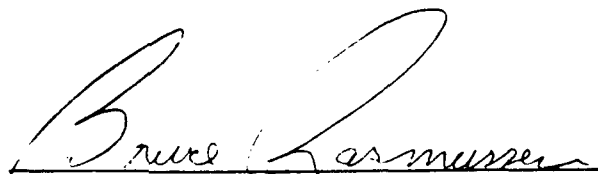
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19. ABSTRACT (Continue on reverse if necessary and identify block number) This document describes how to construct the DDL to NDDL Translators. It also lists the prerequisites for the DDL to NDDL Translators and provides step-by-step instructions for building the DB2 and Total translators. BLOCK 11: INTEGRATED INFORMATION SUPPORT SYSTEM Vol V - Common Data Model Subsystem Part 38 - DDL to NDDL Translator Build Instructions				
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FOREWORD

This technical report covers work performed under Air Force Contract F33600-87-C-0464, DAPro Project. This contract is sponsored by the Manufacturing Technology Directorate, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio. It was administered under the technical direction of Mr. Bruce A. Rasmussen, Branch Chief, Integration Technology Division, Manufacturing Technology Directorate, through Mr. David L. Judson, Project Manager. The Prime Contractor was Integration Technology Services, Software Programs Division, of the Control Data Corporation, Dayton, Ohio, under the direction of Mr. W. A. Osborne. The DAPro Project Manager for Control Data Corporation was Mr. Jimmy P. Maxwell.

The DAPro project was created to continue the development, test, and demonstration of the Integrated Information Support System (IISS). The IISS technology work comprises enhancements to IISS software and the establishment and operation of IISS test bed hardware and communications for developers and users.

The following list names the Control Data Corporation subcontractors and their contributing activities:

SUBCONTRACTOR

ROLE

Control Data Corporation	Responsible for the overall Common Data Model design development and implementation, IISS integration and test, and technology transfer of IISS.
D. Appleton Company	Responsible for providing software information services for the Common Data Model and IDEF1X integration methodology.
ONTEK	Responsible for defining and testing a representative integrated system base in Artificial Intelligence techniques to establish fitness for use.

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Simpact Corporation

Responsible for Communication
development.

Structural Dynamics
Research Corporation

Responsible for User Interfaces,
Virtual Terminal Interface, and Network
Transaction Manager design,
development, implementation, and
support.

Arizona State University

Responsible for test bed operations
and support.

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SECTION 1

INTRODUCTION

To construct the DDL to NDDL TRANSLATORS, the following steps must be executed.

- Precompile the program with embedded NDML
- Generate the Translators Request Processor Main Program
- Compile and insert into the object library (GENOLB) the generated Translators Request Processor Main Program
- Create the DB2 and Total Translator Executables

Section 2 lists the prerequisites of the DDL to NDDL Translators. Section 3 contains the step by step instructions for building the DB2 and Total Translators.

SECTION 2

PREREQUISITES

The Prerequisites to creating the DDL to NDDL TRANSLATORS environment are:

1. Existence of an object library DDLTOLB in the directory cdmdir:[tools.ddlt] for the Impact software.
2. Existence of an object library GENOLB in the directory cdmdir:[tools.ddlt] for the generated code.
3. Existence of a a FORMS directory; this is the directory pointed to by the logical IISSULIB.
4. All the software must be compiled and placed in DDLTOLB according to normal Integration and Testing procedures.
5. The NDDL and NDML executables must be available.

SECTION 3

PROCEDURES TO BUILD THE TRANSLATOR EXECUTABLES

The following steps must be executed to construct the DDL to NDDL Translator Executables:

1. Precompile and compile the NDML-embedded source code. Proceed as follows:

```
$@BLDTRAN
PRECOMPILE AND COMPILE A GROUP OF PRC'S
-----
NAME OF THE APPLICATION>: TRANSL

NAME OF THE PRC FILE (C/R TO STOP, LEAVE, .PRC OFF): TVERDT
NAME OF THE PRC FILE (C/R TO STOP, LEAVE, .PRC OFF): <CR>

NDML PRECOMPILE SUCCESSFULLY COMPLETED
BEGIN COMPILING GENERATED CODE
RESULTS OF COMPILE CAN BE FOUND ON TRANSL.MSG
```

2. Execute the procedure file LNKTRAN.COM to generate the RP-MAIN, compile the RP-MAIN, and place in GENOLB, generate the opt files and link the applications. The two executables that will be created are TOTTRANZ.EXE and D2TRANZ.EXE. The NTM tables are updated automatically. Proceed as follows:

```
$ @LNKTRAN
```

3. Flan the file TRANS.FDL. The form definition files will be:

```
TRANS.FD
```

4. Define the Translator Functions using the User Interface utility SYSGEN. The username, password and role are MORENC, STANLEY and MANAGER respectively. The DB2 function is DB2TRANZ and the DB2 application is GRDB2TRANZ. The TOTAL function is TOTTRANZ and the TOTAL application is GRTOTTRANZ.

The following pages contain listings for:

```
BLDTRAN.COM
LNKTRAN.COM
```

```
$!  
$!  
$!      BLDTRAN.COM  
$!  
$!  
$WS:= WRITE SYS$OUTPUT  
$DEFINE IISGLIB "CDMDIR:[TOOLS.DDLT]GENOLB.OLB"  
$DEFINE CDMTEMPS "CDMDIR:[TOOLS.DDLT.TEMPS]"  
$WS "PRECOMPILE AND COMPILE A GROUP OF PRC'S"  
$WS "-----"  
$!  
$INQUIRE AP " NAME OF THE APPLICATION>"  
$ CREATE 'AP'.DAT  
$ OPEN/WRITE NDMLIN 'AP'.IN  
$NEXT:  
$ INQUIRE PRC "NAME OF PRC FILE (C/R TO STOP, LEAVE .PRC OFF)"  
$ IF PRC .EQS. "" THEN GOTO INDONE  
$ APPEND 'PRC'.PRC 'AP'.DAT  
$ GOTO NEXT  
$ INDONE:  
$!  
$! 5/24/88: FDL stuff added in because NDML now requires fixed  
$! length .DAT files since conversion to FIOPS.  
$!  
$ OPEN/WRITE FDLIN CDMDIR:[COM]FIX.FDL  
$ WRITE FDLIN "IDENT ""23-FEB-1988 09:49:43 VAX-11 FDL Editor"""  
$ WRITE FDLIN " "  
$ WRITE FDLIN "SYSTEM"  
$ WRITE FDLIN " SOURCE VAX/VMS"  
$ WRITE FDLIN " "  
$ WRITE FDLIN "FILE"  
$ WRITE FDLIN " ALLOCATION 391"  
$ WRITE FDLIN " BEST TRY CONTIGUOUS yes"  
$ WRITE FDLIN " EXTENSION 39"  
$ WRITE FDLIN " ORGANIZATION sequential"  
$ WRITE FDLIN " "  
$ WRITE FDLIN "RECORD"  
$ WRITE FDLIN " BLOCK_SPAN yes"  
$ WRITE FDLIN " CARRIAGE_CONTROL carriage_return"  
$ WRITE FDLIN " FORMAT fixed"  
$ WRITE FDLIN " SIZE 80"  
$ CLOSE FDLIN  
$ CONVERT/PAD=%040/FDL=CDMDIR:[COM]FIX.FDL 'AP'.DAT 'AP'.DAT  
$ WRITE NDMLIN "CDMTRAN VAX VAX COBOL NDML COBOL"," ",AP,".DAT ",AP,".ER"  
$ CLOSE NDMLIN  
$ OPEN/WRITE EDIPRC CDMDIR:[COM]EDIT.PROC  
$ WRITE EDIPRC "S/80/200/WH"  
$ WRITE EDIPRC "EXIT"  
$ CLOSE EDIPRC  
$ EDIT/COMMAND=CDMDIR:[COM]EDIT.PROC CDMDIR:[COM]FIX.FDL  
$ DEASSIGN SYS$OUTPUT  
$ CONVERT/PAD=%040/FDL=CDMDIR:[COM]FIX.FDL 'AP'.IN 'AP'.IN  
$ DELETE CDMDIR:[COM]FIX.FDL;* , CDMDIR:[COM]EDIT.PROC;*  
$!  
$! INPUTS TO PRECOMPILER ARE NOW SET UP  
$! GO AHEAD AND RUN IT:  
$!  
$ ASSIGN/USER_MODE SYS$COMMAND SYS$INPUT
```

```
$ RENAME 'AP'.IN NDML.DAT
$ ASSIGN 'AP'.OUT SYS$OUTPUT
$ RUNNDML
$ delete NDML.DAT;*
$!
$ ALLDONE:
$ DEASSIGN SYS$OUTPUT
$!
$! check the .out file for errors in precompiling
$!
$OPEN/READ EFLE 'AP'.OUT
$ZR:="0"
$ NERRLOOP:
$ READ/END OF FILE=COMPERR EFLE EREC
$ LENG = 'F$LENGTH(EREC) '
$ UN = 'F$LOCATE("UNSUCC",EREC) '
$ IF 'UN' .EQS. 'LENG' THEN GOTO NERRLOOP
$ UN1 = 'UN' - 13
$ UN2 = 'F$EXTRACT(UN1,1,EREC) '
$ IF UN2 .EQS. ZR THEN GOTO NDMLGOOD
$WS "THE PRECOMPILE OF 'AP' HAS 'UN2' UNSUCCESSFUL ROUTINES"
$WS "CHECK THE 'AP'.ERR FILE FOR ERRORS"
$GOTO EXIT
$COMPERR:
$WS "PRECOMPILE FAILED"
$GOTO EXIT
$!
$! the precompile was successful, compile the code
$!
$ NDMLGOOD:
$WS " "
$WS "NDML PRECOMPILE SUCCESSFULLY COMPLETED"
$WS "BEGIN COMPILING GENERATED CODE"
$ DELETE 'AP'.DAT;
$ NDMLGDRD:
$ READ/END OF FILE = COMPERR EFLE EREC
$ LENG = 'F$LENGTH(EREC) '
$ UN = 'F$LOCATE("==> USE", EREC) '
$ IF 'UN' .EQS. 'LENG' THEN GOTO NDMLGDRD
$!
$ASSIGN 'AP'.MSG SYS$OUTPUT
$UN1 = 'UN' + 8
$NNAM:='F$EXTRACT(UN1,30,EREC) '
$CLOSE EFLE
$ @'NNAM'
$DEASSIGN SYS$OUTPUT
$WS "RESULTS OF COMPILE CAN BE FOUND ON 'AP'.MSG"
$EXIT:
$DEFINE IISGLIB "CDMDIR:[TEST]GENOLB.OLB"
```

```
$!  
$!          LNKTRAN.COM  
$!          THIS USES ORACLE VERSION 5.1  
$!  
$!  
$DEFINE/NOLOG TOOLOLB   CDMDIR:[TOOLS.DDLT]DDLTLB  
$DEFINE/NOLOG IISSGLIB "CDMDIR:[TOOLS.DDLT]GENOLB.OLB"  
$DEFINE/NOLOG CDMTEMPS  CDMDIR:[TOOLS.DDLT.TEMPS]  
$if pl .eqs. "N" then goto linkTRAN  
$WS="WRITE SYS$OUTPUT"  
$ LINK:  
$DEASSIGN SYS$OUTPUT  
$WS " "  
$WS "Beginning Generation of Rp-Main"  
$LUW="CDMTRAN"  
$CDM="CDM/CDM"  
$!  
$! generate the rp-main  
$! NOTE:  this is done automatically if you link  
$!  
$! set up .dat file to send to genrpd  
$!  
$OPEN/WRITE GENRPD.DAT GENRPD.DAT  
$WRITE GENRPD.DAT LUW, " ", CDM, " VAX"  
$ CLOSE GENRPD.DAT  
$ OPEN/WRITE FDLIN FIX.FDL  
$ WRITE FDLIN "IDENT      ""23-FEB-1988 09:49:43    VAX-11 FDL Editor""  
$ WRITE FDLIN " "  
$ WRITE FDLIN "SYSTEM"  
$ WRITE FDLIN "          SOURCE                      VAX/VMS"  
$ WRITE FDLIN "          "  
$ WRITE FDLIN "FILE"  
$ WRITE FDLIN "          ALLOCATION                      3"  
$ WRITE FDLIN "          BEST_TRY CONTIGUOUS            yes"  
$ WRITE FDLIN "          EXTENSION                      39"  
$ WRITE FDLIN "          ORGANIZATION                  sequential"  
$ WRITE FDLIN "          "  
$ WRITE FDLIN "RECORD"  
$ WRITE FDLIN "          BLOCK_SPAN                      yes"  
$ WRITE FDLIN "          CARRIAGE_CONTROL              carriage_return"  
$ WRITE FDLIN "          FORMAT                        fixed"  
$ WRITE FDLIN "          SIZE                          80"  
$ CLOSE FDLIN  
$ CONVERT/PAD=%040/FDL=FIX GENRPD.DAT GENRPD.DAT  
$!  
$!  
$! now run genrpd  
$!  
$ASSIGN/USER MODE SYS$COMMAND SYS$INPUT  
$ASSIGN 'LUW'.RPD SYS$OUTPUT  
$RUNGENRPD  
$DEASSIGN SYS$OUTPUT  
$ DELETE GENRPD.DAT;*, FIX.FDL;*  
$!  
$! now get the needed information to compile the rp-main(s)  
$!  
$ASSIGN 'LUW'.RDCOMP SYS$OUTPUT
```

```
$GENRPDFLAG = 0
$OPEN/READ EFLE 'LUW'.RPD
$ RDLOOP:
$READ/END OF FILE=ENDMAIN EFLE EREC
$ LENG = 'F$LENGTH(EREC)'
$ DBMS = 'F$LOCATE("FOR DBMS", EREC)'
$ UN = 'F$LOCATE("STORED ON", EREC)'
$ MN = 'F$LOCATE("MODULE", EREC)'
$ DB = 'F$LOCATE("DATA BASE", EREC)'
$ RM = 'F$LOCATE("REMOTE/", EREC)'
$ HST = 'F$LOCATE("RUN AT", EREC)'
$ IF 'MN' .NES. 'LENG' THEN GOTO SAVMODNM
$ IF 'DB' .NES. 'LENG' THEN GOTO SAVDBN
$ IF 'RM' .NES. 'LENG' THEN GOTO RMLC
$ IF 'HST' .NES. 'LENG' THEN GOTO SAVEHST
$ IF 'DBMS' .NES. 'LENG' THEN GOTO SAVEDBMS
$ IF 'UN' .EQS. 'LENG' THEN GOTO RDLOOP
$GENRPDFLAG = 1
$UN1 = 'UN' + 16
$UNEND = 'F$LOCATE(".", EREC) - UN1
$PL := 'F$EXTRACT(UN1, UNEND, EREC)'
$IF DBMSNM .EQS. "ORACLE" THEN GOTO MAINPCC
$WS "A NEW DBMS TYPE MUST BE ADDED TO THE MAIN COMPILE PART OF THIS PROC
$GOTO EXIT
$!
$! get the rp-main mod name
$!
$ SAVMODNM:
$MN1 = 'MN' + 7
$RPMN1 := 'F$EXTRACT(MN1, 10, EREC)'
$LENG = 'F$LENGTH(RPMN1)'
$MN2 = 'F$LOCATE("ZZZ", RPMN1)'
$IF 'MN2' .EQS. 'LENG' THEN MODLOC = 0
$IF 'MN2' .NES. 'LENG' THEN MODLOC = 2
$RPMN := 'F$EXTRACT(MODLOC, 5, RPMN1)'
$GOTO RDLOOP
$!
$! get the remote/local status
$!
$ RMLC:
$RM1 = 'RM' + 13
$RMSW := 'F$EXTRACT(RM1, 1, EREC)'
$GOTO RDLOOP
$!
$! get the database name
$!
$ SAVDBN:
$DB1 = 'DB' + 10
$DBN := 'F$EXTRACT(DB1, 30, EREC)'
$GOTO RDLOOP
$!
$! get the host name
$!
$ SAVEHST:
$HST1 = 'HST' + 7
$HSTNM := 'F$EXTRACT(HST1, 3, EREC)'
$GOTO RDLOOP
$!
$! get the dbms name
```

```
$!  
$  SAVEDBMS:  
$DBMS1 = 'DBMS' + 9  
$DBMSNM := 'F$EXTRACT(DBMS1, 30, EREC)  
$GOTO RDLOOP  
$!  
$!  
$!  oracle precompile the rp-main (if needed)  
$!  
$  MAINPCC:  
$PCC INAME='PL'.TMP LNAME='PL'.ERR USERID='CDM' -  
  ONAME='PL'.COB INCLUDE=SYS$ORACLE: HOST=COB74 MAXLITERAL=160 REBIND=YES  
$ON ERROR THEN WS "ORACLE ERROR IN RP-MAIN 'PL'.TMP"  
$ON ERROR THEN GOTO EXIT  
$COBOL/ANSI FORMAT/CHECK=ALL/COPY LIST/CROSS REFERENCE/OBJECT='PL'.OBJ -  
  /FIPS=74/NOLIST/CHECK=ALL/STANDARD=(SYNTAX)/DEBUG=ALL 'PL'.COB  
$ON ERROR THEN WS "COBOL ERROR IN RP-MAIN 'PL'.TMP"  
$ON ERROR THEN GOTO EXIT  
$DELETE 'PL'.COB;*  
$DELETE 'PL'.ERR;*  
$!  
$!  Compile the rpmain.c  
$!  
$vcc/debug/NOLIST/show=(include)/standard=portable -  
  /noopt/OBJECT=CDMDIR:[TOOLS.DDLT]RPMAIN.OBJ/DEFINE=VAX RPMAIN.C  
$delete rpmain.c;*  
$GOTO RDLOOP  
$!  
$!  done generating rp-main  
$!  
$  ENDMAIN:  
$CLOSE EFLE  
$DEASSIGN SYS$OUTPUT  
$IF GENRPDFLAG .EQ. 0 THEN GOTO MAINERR  
$WS " "  
$WS "GENERATION OF REQUEST PROCESSOR MAIN COMPLETE"  
$GOTO STARTLINK  
$!  
$!  there was an error in generating the rp-main  
$!  
$  MAINERR:  
$WS "THE GENRPD HAD ERRORS.  EXAMINE 'LUW'.RPD"  
$GOTO EXIT  
$STARTLINK:  
$DELETE 'LUW'.RPD;*  
$DELETE 'LUW'.RDCOMP;*  
$DELETE CMDIR:[RUNAREA]TOTTRANZ.EXE;*  
$DELETE CMDIR:[RUNAREA]DB2TRANZ.EXE;*  
$WRITE SYS$OUTPUT " - LINKING TOTTRANZ.EXE "  
$WRITE SYS$OUTPUT " - LINKING DB2TRANZ.EXE "  
$ASSIGN CDMTRAN.LINK SYS$OUTPUT  
$!  
$! inquire p5 "ENTER TWO LETTER NTM DIRECTORY PREFIX "  
$! inquire p6 "ENTER NTM CLUSTER FOR THIS RP (T1V OR UIV) "  
$!  
$P5 = "GR"  
$P6 = "UIV"  
$P1 = "DB2TRAN"  
$!
```

```
$! NTMTAB.COM
$!
$! 15-APR-87
$! M. DENMAN
$!
$! UPDATE NTM TABLES APITBL.DAT, APTTBL.DAT
$!
$!
$ FLAG=0
$ P7=P5+P1
$ OPEN/READ APITBL.DAT CMDIR:[RUNAREA]APITBL.DAT
$ RD1:
$ READ/END OF FILE=CHK APITBL.DAT ENTRY
$ RPND=F$EXTRACT(0,9,ENTRY)
$ IF RPND .NES. P7 THEN GOTO RD1
$ FLAG=1
$ CHK:
$ CLOSE APITBL.DAT
$ IF FLAG .NES. 0 THEN GOTO NOUPD
$ GOTO UPD
$ NOUPD:
$ WRITE SYS$OUTPUT " "
$ WRITE SYS$OUTPUT "RP MAIN ALREADY IN NTM TABLES"
$ WRITE SYS$OUTPUT " "
$ GOTO LINKTRAN
$ UPD:
$ RPAPI=P7+"Z"+P6+"1"
$ RPAPT=P1+"Z9999010120001130N0"
$ OPEN/APPEND APITBL.DAT CMDIR:[RUNAREA]APITBL.DAT
$ OPEN/APPEND APTTBL.DAT CMDIR:[RUNAREA]APTTBL.DAT
$ WRITE APITBL.DAT RPAPI
$ WRITE APTTBL.DAT RPAPT
$ CLOSE APITBL.DAT
$ CLOSE APTTBL.DAT
$ P1= "TOTTRAN"
$ P7=P5+P1
$ RPAPI=P7+"Z"+P6+"1"
$ RPAPT=P1+"Z9999010120001130N0"
$ OPEN/APPEND APITBL.DAT CMDIR:[RUNAREA]APITBL.DAT
$ OPEN/APPEND APTTBL.DAT CMDIR:[RUNAREA]APTTBL.DAT
$ WRITE APITBL.DAT RPAPI
$ WRITE APTTBL.DAT RPAPT
$ CLOSE APITBL.DAT
$ CLOSE APTTBL.DAT
$ WRITE SYS$OUTPUT " "
$ WRITE SYS$OUTPUT "TWO NTM TABLES UPDATED WITH RP "
$ WRITE SYS$OUTPUT " "
$!
$LINKTRAN:
$@SYS$ORACLE:LFOR CMDIR:[RUNAREA]TOTTRANZ -
CDMDIR:[TOOLS.DDLT]TOTTRAN.OBJ,-
CDMDIR:[TOOLS.DDLT]RPMAIN.OBJ,-
'PL'.OBJ,-
CDMDIR:[COM]CDMI/OPTIONS,-
SYS$ORACLE:SQLLIB/LIB,-
ui:ir:[fe]feolb/inc=(fluier),-
CDMDIR:[COM]CDMUI.OPT/OPT,-
CDMDIR:[COM]CDMNTM.OPT/OPTIONS N
$@SYS$ORACLE:LFOR CMDIR:[RUNAREA]DB2TRANZ -
```

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```
CDMDIR:[TOOLS.DDLT]DB2TRAN.OBJ,-  
CDMDIR:[TOOLS.DDLT]RPMMAIN.OBJ,-  
'PL'.OBJ,-  
CDMDIR:[COM]CDMI/OPTIONS,-  
SYS$ORACLE:SQLLIB/LIB,-  
uidir:[fe]feolb/inc=(fluier),-  
CDMDIR:[COM]CDMUI.OPT/OPT,-  
CDMDIR:[COM]CDMNTM.OPT/OPTIONS N  
$DEASSIGN SYS$OUTPUT  
$DELETE CDMTRAN.LINK;*, RPMMAIN.OBJ;*, 'PL'.OBJ;*  
$WRITE SYS$OUTPUT "LINKING COMPLETED"  
$DEFINE/NOLOG IISGLIB "CDMDIR:[TEST]GENOLB.OLB"  
$DEASSIGN TOOLOLB  
$!
```